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Department of Biostatistics, University of Washington,
3980 15th Avenue NE, Box 351617, Seattle, WA 98195

EDUCATION

University of Washington, Seattle, WA

September 2018 - Present

Ph.D., Biostatistics

Advisor: Jon Wakefield, Ph.D.

Dissertation: Statistical Methods for Official Statistics and Mortality Estimation

Saint Olaf College, Northfield, MN

September 2014 - May 2018

B.A., Mathematics and Religion

Concentration in Statistics

Summa cum laude

RESEARCH AND CONSULTING EXPERIENCE

Research Assistant

University of Washington, Department of Biostatistics

Supervisor: Jon Wakefield, Ph.D.

June 2019 - Present

University of Washington, Department of Environmental and Occupational Health Sciences

Supervisors: Lianne Sheppard, Ph.D. and Joel Kaufman, Ph.D.

September 2018 - June 2019

Saint Olaf College Center for Interdisciplinary Research

Statistical Consultant

Supervisors: Louis Epstein, Ph.D. and Sharon Lane-Getaz, Ph.D.

September 2016 - May 2018

Matthew Wright, Ph.D. and Matthew Richey, Ph.D.

Saint Olaf College Collaborative Undergraduate Research and Inquiry Program

Student Summer Researcher

Supervisors: Sharon Lane-Getaz, Ph.D.

May 2016 - August 2016

TEACHING EXPERIENCE

Instructor

University of Washington, Department of Biostatistics

- BIOST 311: Regression Methods in the Health Sciences

March 2022 - June 2022

Co-taught with Charlie Wolock

Teaching Assistant

University of Washington, Department of Biostatistics

- BIOST 310: Biostatistics for the Health Sciences

September 2020 - December 2020

- Summer Institute in Statistics and Modeling in Infectious Diseases

July 2021, July 2022

Spatial Statistics in Epidemiology and Public Health

- Course preparation: Maintenance of R package `rigr`

June 2021 - September 2021

- BIOST 555: Statistical Methods for Spatial Epidemiology

January 2022 - March 2022

Saint Olaf College, Department of Mathematics and Statistics

February 2015 - May 2018

- STAT 212: Statistics for the Sciences
- STAT 322: Statistical Theory
- MATH 244: Real Analysis
- MATH 262: Probability Theory

Undergraduate Student Mentor

University of Washington, Department of Statistics

January 2021 - June 2021

- Directed Reading Program Mentor: Topics in Biostatistics
- Directed Reading Program Mentor: Disease Mapping

Fred Hutchinson Cancer Research Center

June 2021 - September 2021

- Summer Internship Mentor

INDUSTRY EXPERIENCE

Data Science Intern

May 2017 - August 2017

WindLogics, St. Paul, MN

AWARDS AND HONORS

University of Washington

ARCS Foundation Fellow

Biostatistics, Epidemiologic, and Bioinformatic Training in Environmental Health Training Grant

Saint Olaf College

Phi Beta Kappa Honors Society

Blue Key Honor Society

Pi Mu Epsilon Honor Society

Theta Alpha Kappa Honor Society

Bellows Scholarship

President's Scholarship

PROFESSIONAL SERVICE

Manuscript Reviewer

Journal of Official Statistics

Journal of Survey Statistics and Methodology

UNIVERSITY SERVICE

University of Washington, Department of Biostatistics

Member - Biostatistics Equity, Diversity, and Inclusion Committee *September 2018 - September 2021*

Member - Statistics Education Reading Group *September 2019 - Present*

Member - Biostatistics Activities and Events Squad *September 2019 - September 2022*

Member - Admissions Committee *September 2021 - April 2022*

Saint Olaf College

Member - TRIO McNair Scholars Program

January 2016 - May 2018

PUBLICATIONS

PUBLISHED

1. Eaton, J., . . . , **Okonek, T.M.**, . . . , Shiraishi, R.W. (2021). Naomi: A New Modelling Tool for Estimating HIV Epidemic Indicators at the District Level in Sub-Saharan Africa. *Journal of the International AIDS Society*, 24.
2. Wakefield, J., **Okonek, T.M.**, Pedersen, J. (2020). Small Area Estimation for Disease Prevalence Mapping. *International Statistical Review*, 88, 2.
3. Han, S.M., **Okonek, T.M.**, Yadav, N., Zheng, X. (2020). Distributions of Matching Distances in Topological Data Analysis. *SIAM Undergraduate Research Online*, 13.
4. Epstein, L.K., **Okonek, T.M.**, Perkins, A.E. (2019). Mind the Gap: Inclusive Pedagogies for Diverse Classrooms. *Journal of Music History Pedagogy*, 9, 2.

SUBMITTED

1. **Okonek, T.M.**, Wakefield, J. (2022). A Computationally Efficient Approach to Fully Bayesian Benchmarking.

SOFTWARE

stbench	Fully Bayesian Benchmarking for spatio-temporal models
rigr	Regression, inference, and general data analysis tools for R

RESEARCH PRESENTATIONS

1. “A Computationally Efficient Approach to Fully Bayesian Benchmarking.” WNAR, Virtual. June, 2022. { *Contributed Presentation* }
2. “A Computationally Efficient Approach to Fully Bayesian Benchmarking.” Biostatistics Student Seminar Series, UW Department of Biostatistics, Seattle, WA. November, 2021. { *Contributed Presentation* }
3. “Assessing National PM10 Predictions: From 1990 to 2016.” BEBTEH Student Research Day, UW, Seattle, WA. April, 2019. { *Poster Session* }
4. “Distributions of Matching Distances in Topological Data Analysis.” Underrepresented Students in Topology and Algebra Research Symposium, Portland, OR. April, 2018. { *Poster Session* }
5. “The Music History Game: Assessing Learning through Play.” National Conferences on Undergraduate Research, Memphis, TN. April, 2017. { *Poster Session* }
6. “Teacher Professional Learning Communities and Student Achievement.” Saint Olaf College Collaborative Undergraduate Research and Inquiry Program, Northfield, MN. August, 2016. { *Poster Session* }

PROFESSIONAL AFFILIATIONS

American Statistical Association

TECHNICAL SKILLS

Programming Languages and Statistical Packages

Other Applications

R, C++, Python, Mathematica,
Shiny, Tidyverse
L^AT_EX, Linux/Unix, Git